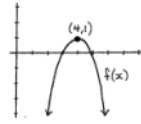
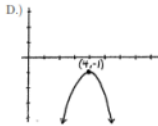
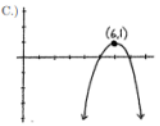
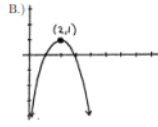
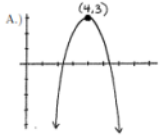


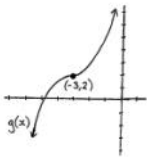
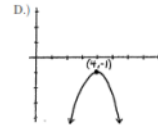
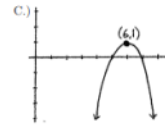
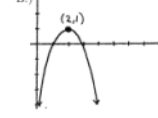
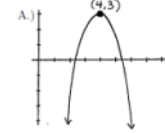
Given the graph of $f(x)$ above, match the following four functions with their graphs.

- 13.) $f(x)+2$ 14.) $f(x)-2$ 15.) $f(x+2)$ 16.) $f(x-2)$



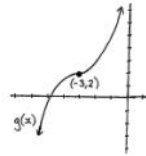
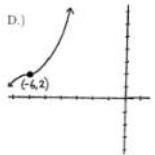
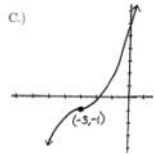
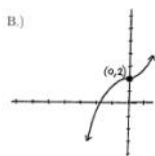
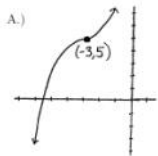
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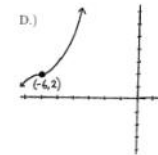
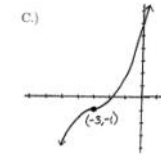
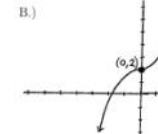
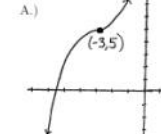
Given the graph of $g(x)$ above, match the following four functions with their graphs.

- 17.) $g(x)+3$ 18.) $g(x)-3$ 19.) $g(x+3)$ 20.) $g(x-3)$



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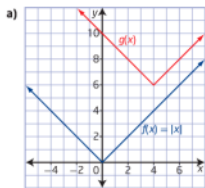
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TB, p 11

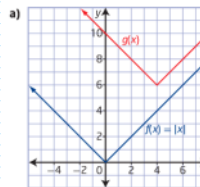
Your Turn

Describe the translation that has been applied to the graph of $f(x)$ to obtain the graph of $g(x)$. Determine the equation of the translated function in the form $y - k = f(x - h)$.



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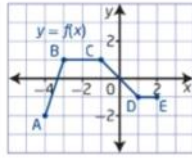
The graph of $g(x)$ is the same shape as that of $f(x)$, but it's been moved 4 units right and 6 units up.

That means the translated function's equation will be:

$y - 6 = f(x - 4)$

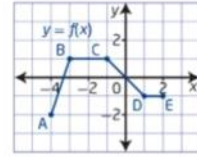
At right is shown the graph of $y = f(x)$.
For each transformation below, give its mapping.

- a) $g(x) = f(x) + 3$
- b) $h(x) = f(x - 2)$
- c) $v(x) = f(x + 4)$
- d) $t(x) = f(x) - 2$

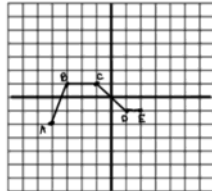


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For each transformation below, give its mapping.

- a) $g(x) = f(x) + 3$
 $(x, y) \rightarrow (x, y + 3)$
- b) $h(x) = f(x - 2)$
 $(x, y) \rightarrow (x + 2, y)$
- c) $v(x) = f(x + 4)$
 $(x, y) \rightarrow (x - 4, y)$
- d) $t(x) = f(x) - 2$
 $(x, y) \rightarrow (x, y - 2)$



Choose ONE of the transformed functions above
supplied grid.

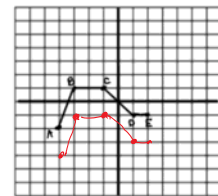


and sketch its graph on the
supplied grid.

Choose ONE of the transformed functions above
supplied grid.

- part d)
 $(x, y) \rightarrow (x, y - 2)$
 $t(x) = f(x) - 2$

Base		NEW	
x	y	x	y-2
-4	-2	-4	-4
-3	1	-3	-1
-1	1	-1	-1
1	-1	1	-3
2	-1	2	-3



and sketch its graph on the
supplied grid.